ATENT COOPERA	ATION TREATY
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From the INTERNATIONAL SEARCHING AUTHORITY 9	RECEIVED PCT 2801
	THE INTERNATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION  (PCT Rule 44.1)  [PCT Rule 44.1)
Applicant's or agent's file reference 1823.015PC02	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 00/ 21658	International filing date (day/month/year) 09/08/2000
Applicant DOCKE SCOTT, Walter, Guy	Despose to Search (6/27/01) 5/27
1. X  The applicant is hereby notified that the International Search  Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claims  When? The time limit for filing such amendments is normal International Search Report; however, for more det  Where? Directly to the International Bureau of WIPO  34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35	Softhe International Application (see Rule 46): $(4/27/3)$
For more detailed instructions, see the notes on the accor	•
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	Report will be established and that the declaration under
3. With regard to the protest against payment of (an) addition the protest together with the decision thereon has been applicant's request to forward the texts of both the protest; the app	n transmitted to the International Bureau together with the est and the decision thereon to the designated Offices.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international ap If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided i completion of the technical preparations for international publica	of withdrawal of the international application, or of the n Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the tion.
Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 mo	nths from the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must perfor before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	e demand or in a later election within 19 months from the
Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentlaan 2  NL-2280 nv Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Hans Pettersson

### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

### **NOTES TO FORM PCT/ISA/220 (continued)**

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

### It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

It, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1823.015PC02	FOR FURTHER  see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/US 00/21658	09/08/2000	09/08/1999		
Applicant				
SCOTT, Walter, Guy				
This International Search Report has be according to Article 18. A copy is being	een prepared by this International Searching Aut transmitted to the International Bureau.	thority and is transmitted to the applicant		
This International Search Report consis	ets of a total of4 sheets.  by a copy of each prior art document cited in this	s report.		
Basis of the report				
<ul> <li>With regard to the language, the language in which it was filed, to</li> </ul>	ne international search was carried out on the ba unless otherwise indicated under this item.	sis of the international application in the		
the international search Authority (Rule 23.1(b))	was carried out on the basis of a translation of to.	the international application furnished to this		
was carried out on the basis of		nternational application, the international search		
filed together with the ir	nternational application in computer readable for	m.		
furnished subsequently	to this Authority in written form.			
	to this Authority in computer readble form.			
the statement that the sinternational application	subsequently furnished written sequence listing on as filed has been furnished.	does not go beyond the disclosure in the		
the statement that the infurnished	nformation recorded in computer readable form i	is identical to the written sequence listing has been		
2. Certain claims were fo	ound unsearchable (See Box I).			
3. X Unity of invention is la	acking (see Box II).			
4. With regard to the title,				
X the text is approved as	submitted by the applicant.			
the text has been estab	olished by this Authority to read as follows:			
5. With regard to the abstract,	,			
	submitted by the applicant.			
the text has been estab	olished, according to Rule 38.2(b), by this Author the date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.		
6. The figure of the <b>drawings</b> to be pu	ublished with the abstract is Figure No.	1A		
as suggested by the ap	oplicant.	None of the figures.		
because the applicant	failed to suggest a figure.			
because this figure bet	ter characterizes the invention.			



International application No. PCT/US 00/21658

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-16
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-16

A biometric sensing device and a method of capturing a fingerprint image, said device comprising first and second conductor grids on opposite sides of a piezoelectric film and wherein biometric data such as the image of a fingerprint can be detected in that electric pulses are generated via said grids and the resulting voltages are measured subsequently as the result of the piezoelectric effect from applied pressure from finger ridges.

2. Claim: 17

A method for detecting the presence of a finger using the instantaneous pyroelectric effect in a piezoelectric film sensor array.

			PC1/03 00/21036
A. CLASSI IPC 7	IFICATION OF SUBJECT MATTER A61B5/117 G06K9/00		
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC	
B. FIELDS	SEARCHED	Name that the same to the same	
Minimum do IPC 7	ocumentation searched (classification system followed by classification A61B G06K G07C G01B	ion symbols)	
	tion searched other than minimum documentation to the extent that s		
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, se	arch terms used)
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.
Α	US 5 515 738 A (TAMORI TERUHIKO) 14 May 1996 (1996-05-14) abstract; figures 1,3 column 3, line 5 -column 4, line	15	1-16
Α	US 5 844 287 A (HASSAN SALMAN AB 1 December 1998 (1998-12-01) abstract; figure 2 column 5, line 35-49	OU ET AL)	11-16
Α	SCHNEIDER J K ET AL: "LIVE SCAN FINGERPRINT IMAGERY USING HIGH RIC-SCAN ULTRASONOGRAPHY" PROC. OF THE ANN. INTERNAT. CARN, ON SECURITY TECHNOLOGY, US, NEW YOU 1 October 1991 (1991-10-01), page XP000300413 ISBN: 0-7803-0120-X page 91, right-hand column; figur	AHAN CONF. RK, IEEE, es 88-95,	5,13
Furth	er documents are listed in the continuation of box C.	X Patent family me	mbers are listed in annex.
° Special cat	egories of cited documents:	"T" later document publish	ned after the international filing date
conside "E" earlier d	nt defining the general state of the art which is not ered to be of particular relevance ocument but published on or after the international	or priority date and no cited to understand the invention	relevance; the claimed invention
which is citation	nt which may throw doubts on priority claim(s) or s cited to establish the publication date of another or other special reason (as specified)	cannot be considered involve an inventive s "Y" document of particular cannot be considered	I novel or cannot be considered to step when the document is taken alone relevance; the claimed invention I to involve an inventive step when the
other m	nt published prior to the international filling date but		d with one or more other such docu- tion being obvious to a person skilled the same patent family
Date of the a	actual completion of the international search	Date of mailing of the	international search report
	8 December 2000	2 7.04	3
Name and m	nailing address of the ISA	Authorized officer	**************************************
	European Patent Office., F.3. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Jonsson,	P

## INTERIORAL SEARCH REPORT

Invitnation on patent family members

PCT/US 00/21658

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5515738	A	14-05-1996	JP JP DE DE EP	2557796 B 8062068 A 69422579 D 69422579 T 0649116 A	27-11-1996 08-03-1996 17-02-2000 06-07-2000 19-04-1995
US 5844287	Α	01-12-1998	FR DE DE EP JP	2739977 A 69608521 D 69608521 T 0769754 A 9126918 A	18-04-1997 29-06-2000 14-09-2000 23-04-1997 16-05-1997